United States District Court

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| Northern District of | of California |
| United States of America v.) | M 15 00921 Case No. CR 15-00106-02-EJI |
| Hao Zhang | |
| Defendant | |
| ARREST WA | RRANT SEE SEE |
| To: Any authorized law enforcement officer YOU ARE COMMANDED to arrest and bring before a Un (name of person to be arrested) Hao Zhang | nited States magistrate judge without unnecessary delay |
| who is accused of an offense or violation based on the following do | cument filed with the court: |
| ☐ Indictment x Superseding Indictment ☐ Information | on |
| ☐ Probation Violation Petition ☐ Supervised Release Violation | ion Petition |
| This offense is briefly described as follows: | |
| Count 2: 18:1832(a)(5) - Conspiracy to 18:1831(a)(1),(2),(3), & 2 - | to Commit Economic Espionage Commit Theft of Trade Secrets Conomic Espionage; Aiding and Abetting Cheft of Trade Secrets; Aiding and Abetting |
| | |
| Date: April 2, 2015 | Cita F. Escalano |
| | Issuing officer's signature |
| City and state: San Jose, CA | Cita F. Escolano-CR CSA |
| ony and only on | Printed name and title |

| See Marie | Return ODICINAL WADDAMT HELD DV | |
|---|---|--|
| This warrant was received on (date) at (city and state) Date: | , and the puison margariested of anielo by NOTIFY ABOVE OFFICE UPON ARREST DO NOT MAKE RETURN ON THIS COPY Arresting officer's signature | |
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UNITED STATES DISTRICT COURT

NORTHERN DISTRICT OF CALIFORNIA

THE UNITED STATES OF AMERICA

vs.

WEI PANG, HAO ZHANG, HUISUI ZHANG,
JINPING CHEN, ZHAO GANG, and CHONG ZHOU

SUPERSEDING INDICTMENT

Count One:

18 U.S.C. § 1831(a)(5)-Conspiracy to Commit
Economic Espionage

Count Two:

18 U.S.C. § 1832(a)(5)-Conspiracy to Commit
Theft of Trade Secrets

Counts Three-Seventeen:

18 U.S.C. §§ 1831(a)(1),(2), (3), & 2-Economic
Espionage; Aiding and Abetting

Counts Eighteen-Thirty Two:

18 U.S.C. §§ 1832(a)(1),(2), (3), & 2-Theft of

Trade Secrets; Aiding and Abetting

A true bill.

Foreperson

Filed in open court this A.D. 2015

Part Atura

United States Magistrate Judge

Bail. \$ No boil arrest workers or to all defendants of

CR-15-00106 EJD

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Singapore, and had facilities around the United States and the world. The facilities operated by Avago included fabrication plants, one of which was located in Fort Collins, Colorado.

Skyworks Solutions, Inc. ("Skyworks") was an innovator of high performance analog semiconductors. Skyworks was headquartered in Woburn, Massachusetts, and had facilities around the United States and the world. The facilities operated by Skyworks included fabrication plants, one of which was located in Woburn.

The Technology

- Surface Acoustic Wave ("SAW") and Bulk Acoustic Wave ("BAW") filters are used in 3. wireless devices to eliminate interference and improve other aspects of device performance. FBARs are one type of BAW filter.
- Film Bulk Acoustic Resonators ("FBAR") are tunable acoustical resonators comprising 4. top and bottom electrodes that sandwich piezoelectric material, and which are supported from the ends such that they are suspended over a substrate. FBARs are often referred to as "filters" because they filter incoming and outgoing wireless signals for wireless devices. FBARs are tuned to adjust their resonance frequency to suit various applications. Avago is the leading company in the United States that manufactures and sells FBARs.
- The most common and most profitable application of FBAR technology is as a radio 5. frequency ("RF") filter for mobile phones and other wireless devices. Filtering unwanted incoming and outgoing wireless signals has become technologically more difficult with the ever-expanding use of wireless signals in modern communications. Technological advances in FBARs have played a substantial role in creating smaller, more efficient wireless devices for both consumer and military applications.

Entities Used by the Defendants

Tianjin University ("TJU") was a State University and part of the People's Republic of 6. China ("PRC") Ministry of Education. TJU includes the College of Precision Instrument and Opto-Electronic Engineering ("College of Precision Instrument"). The College of Precision Instrument contained three pertinent research facilities: the State Key Laboratory for Precision Testing Techniques

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and Instrument, the Engineering Research Center of the Ministry of Education / Micro-Nano Manufacturing and Measuring Technology, and the Municipal Engineering Center / Micro-Nano Manufacturing Technology. WEI PANG, HAO ZHANG, and JINPING CHEN held the positions of TJU Professors in the College of Precision Instrument.

- TJU was a member institution of PRC 985 Project. The 985 Project was a PRC funding 7. program administered by the Ministry of Education and instituted for the purpose of enabling the PRC to develop world class universities. The PRC Ministry of Education also stated that PRC state universities have a role in bolstering the PRC economy and that this role was more readily fulfilled by utilizing 985 Project funds.
- Novana, Inc. ("Novana"), was a shell corporation formed in the Cayman Islands by WEI 8. PANG, HAO ZHANG, and others, at the direction of TJU. Novana was created in part to appear to be the legitimate source of the trade secrets stolen from Avago and Skyworks. TJU dictated this arrangement, including the ownership structure of Novana.
- Tianjin Micro Nano Manufacturing Tech ("MNMT") was located in the PRC's Tianjin 9. Economic Development Area ("TEDA"), a PRC-sponsored high tech development zone, and served as the investment arm of TJU, which was MNMT's sole owner.
- ROFS Microsystems ("ROFS") was an entity created by the joint venture between 10. MNMT and PANG, ZHANG, and others on September 11, 2011. WEI PANG, HAO ZHANG, JINPING CHEN, ZHAO GANG, CHONG ZHOU, and others held positions at ROFS. Other Individuals

J.Y. was the Academician of the Chinese Academy of Sciences responsible for the TJU 11. College of Precision Instrument and Opto-Electronic Engineering. J.Y. had substantial connections to the PRC government and was a chairman or committee member of numerous PRC political committees, including the National Committee of Chinese People's Political Consultative Conference ("CPPCC"), CPPCC of Tianjin City, China Association for Promoting Democracy ("CAPD"), and Tianjin CAPD. The Defendants

WEI PANG came to the United States from the PRC as a graduate student at University

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of Southern California ("USC") on August 10, 2001. After obtaining his PhD in Electrical Engineering ("EE") from USC in 2006, he worked for Avago in Fort Collins, Colorado, until the end of June 2009. PANG was a USC classmate of HAO ZHANG and HUISUI ZHANG.

- HAO ZHANG came to the United States from the PRC as a graduate student at USC on 13. May 19, 2003. After obtaining his PhD in EE from USC in 2006, he worked for Skyworks in Massachusetts until May 2009.
- 14. HUISUI ZHANG came to the United States from the PRC after receiving his Bachelor of Science degree from Peking University in 2002. After obtaining his Master of Science degree in EE from USC in 2006, HUISUI ZHANG worked for Micrel Semiconductor in San Jose, California. HUISUI ZHANG, WEI PANG, and HAO ZHANG were classmates at USC.
- JINPING CHEN was Assistant Dean at TJU, the Deputy General Manager/Vice 15. President of Tianjin Micro Nano Manufacturing Tech ("MNMT"), and a member of the Board of Directors of ROFS. CHEN coordinated Micro-Electronic Mechanical Systems ("MEMS") fabrication equipment lists and led the formation of ROFS as a PRC-based joint venture between WEI PANG and HAO ZHANG's team and TJU/MNMT.
- ZHAO GANG was the general manager of ROFS, was educated at TJU, and had prior 16. TJU-affiliated employment. In 2005, GANG helped TJU and JINPING CHEN form MNMT, which originated as a micro/nano engineering fabrication facility built with PRC government funding.
- CHONG ZHOU was a TJU graduate student working for WEI PANG and HAO 17. ZHANG's TJU design team. CHONG ZHOU worked with Cadence design kit and made source code adjustments, contributed to papers and patent applications on FBAR, edited layouts for FBAR, and altered documents containing Avago's trade secrets.

Avago Trade Secrets

Avago's FBAR technology contained trade secrets, as defined in Title 18, United States 18. Code, Section 1839(3), that were included in products sold worldwide. Avago and its predecessor companies have spent approximately 20 years and \$50,000,000 researching and developing its FBAR technology. Avago's FBAR technology included, but was not limited to, the following trade secrets:

a. P-cells: Avago used Cadence, a publicly-available computer automated drafting ("CAD") software platform for engineers to design FBARs. Avago employed software engineers to develop parameterized cells, which Avago called "P-cells," for use within Cadence. The "Call Back" features of P-cells automatically adjusted remaining dimensions when one or more dimensions were changed by an engineer using the program to design FBARs. The Call Back files were typically saved by noting a "CB" at the end of the file name. These automatic adjustments allowed Avago's FBAR designers to create and test new FBAR designs quickly. When an Avago P-cell was opened, the window revealed the source code and a banner at the top stating that the file was Avago's intellectual property. The source code also showed the name of the Avago employee who made every revision to the file, including the date the revision was made. The P-cells in Avago's Design Kit took many software engineers years to develop.

- b. **Design Kits**: Avago grouped all of the P-cells it created into a bulk "Design Kit" that was stored on restricted servers. The P-cells in Avago's Design Kit were critical to Avago's ability to design high performance FBARs and were not disseminated outside of the company.
- c. Air Bridge Design Feature: Avago's "Air Bridge" connected the top electrode on an FBAR to the electrical pad. Avago's Air Bridge contained unique features, such as allowing kinks to remain and machining the air bridge to match the contours of the sloped layers beneath it. Avago's Air Bridge enhanced the performance of its FBARs by improving the amount of energy an FBAR reflected back.
- d. Wings and "Undercut" Design Features: Avago's "Wings" feature derived its name from the wing shape of one layer. Avago developed Wings simultaneously with its Air Bridge. Wings had a specific feature called an "undercut." Avago perfected a wet-etching process to create the undercut and specifically designed its FBARs to have a slight undercut.
- e. **Silicon Carbide Layers**: Avago's Silicon Carbide Project combined two passivation layers, or coatings, of silicon carbide in a particular manner proprietary to Avago.
- f. Temperature Compensation Layer: Avago placed a temperature compensation layer between two electrodes as part of its FBAR design, and found that a smoother and more gradual

slope avoided cracking and enhanced performance.

- g. Coupled Resonator Frequencies (CRF) Project: Avago's CRF Project was a method for manufacturing an acoustically-coupled device for FBARs. The particular manner in which Avago manufactured the device enhanced the performance of its FBARs.
- h. **Ion Mill Etching Process and Trimming Code**: Avago's ion mill etching process was a unique FBAR fabrication process. Avago maintained a machine-specific trimming code, or source code, that enabled a specific type of machine (a Roth and Rawl brand) to perform the ion mill etching process. The trimming code and the specific type of machine were both essential components to Avago's ion mill etching process.
- i. Microcap, Automatic Parameter Testing (APT), and Wafer Bonding Process: Avago developed a low-cost packaging technique called "Microcap" that aligned notches and cavities to "sandwich" a lid wafer onto a base wafer (also referred to as "wafer bonding") before cutting the wafer into individual pieces. Avago intentionally placed bumps, treads, and "vias" (that is, passageways through the wafer layers) on and through the backs of wafers, then used gold to fill the aligned cavities between the lid and the base wafers for conductivity. Sandwiching multiple wafers allowed Avago to simultaneously package multiple FBARs before cutting, saving time and money. Avago also developed source code to conduct APT during the wafer bonding process. APT simulated the shape of a base wafer for bonding and automatically generated a matching wafer that can be bonded to the base. Additionally, APT automatically adjusted all parts of both wafers for any modifications to either wafer.
- j. Chemical Mechanical Polish (CMP) Process: CMP was one of the FBAR fabrication process steps performed by technicians at Avago.
- k FBAR Design Layouts: Avago's FBAR design layouts contained critical parameters that affect FBAR performance.
- 1. Applications for Avago's FBAR Technology: Avago conducted market and feasibility analyses for potential applications of FBAR technology and protected the results as trade secrets.
 - m. Aluminum Nitride (AIN) Deposition Details: AlN was the piezoelectric

material that Avago used in its FBARs. Although various methods of depositing AlN on the bottom electrode were available, Avago determined that "sputtering" was the preferred method. Precise sputtering of AlN was critical to the tuning and performance of Avago's FBARs.

n. **High Tone Bulk Acoustic Resonators**: In addition to work on FBAR, Avago also performed Research and Development ("R&D") on other types of BAW devices, including high tone bulk acoustic resonators ("HBAR").

- 19. Avago took reasonable measures to keep its trade secrets, including those referred to in paragraph 18 above, secret, including the following:
- a. Avago employees were required to sign a Non-Disclosure Agreement (NDA) as part of accepting employment.
- b. Avago employees attended annual training on confidential information and on business standards of conduct.
 - c. Avago employees were required to wear access badges to enter Avago facilities.
- d. Avago maintained security cameras both inside and outside Avago facilities. Security Guards monitored these cameras 24/7.
- e. Access to Avago's computer system required an assigned log-in and password.

 Avago computer monitors also displayed a Security Banner/Warning.
- f. Access to Avago's "T" Drive required a separate, assigned log-in and password, and required the user to view and accept a confidentiality warning and agreement before logging on. Further access inside the "T" drive was limited to folders relevant to each particular user. Initial access was granted by a system administrator, who limited an employee's access to the areas for which he or she had a legitimate need.
- g. Access to Avago's computer system required an assigned log-in and password, and was only given to employees with a need for access.
- h. Publication of any Avago FBAR information required prior approval from Dr. Richard Ruby.

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employee's manager, approval of access from the owner of the project directory structure was required.

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together with others known and unknown to the Grand Jury, knowing and intending that the offenses would benefit a foreign government, namely the PRC, and foreign instrumentalities, namely TJU, MNMT, TEDA and ROFS, conspired:

- a. knowingly to steal, and without authorization appropriate, take, carry away, conceal, and by fraud, artifice, and deception obtain trade secrets belonging to Avago and Skyworks;
- b. knowingly and without authorization to copy, duplicate, sketch, draw, download, upload, alter, photocopy, replicate, transmit, deliver, send, communicate, and convey trade secrets belonging to Avago and Skyworks; and
- c. knowingly and without authorization to receive, buy, and possess trade secrets belonging to Avago and Skyworks, knowing the same to have been stolen and appropriated, obtained, and converted without authorization.

Manner and Means of the Conspiracy

- 24. The object of the conspiracy was to steal trade secrets from Avago and Skyworks and use them to set up an FBAR/BAW fabrication facility in the PRC. In effect, and in the words of one of the defendants, the objective was "moving Avago to China."
- 25. To accomplish this transfer, WEI PANG, HAO ZHANG, HUISUI ZHANG, and others, communicated with JINPING CHEN, ZHOU GANG, CHONG ZHOU, J.Y., and others in the PRC to develop a scheme by which the sources and origins of the trade secrets stolen from Avago and Skyworks would be disguised and the technology contained within those trade secrets be used by entities in the PRC to develop products for civilian and military use.
- 26. TJU authorized WEI PANG, HAO ZHANG, and others to incorporate Novana in the Cayman Islands in 2009. TJU guided PANG in establishing Novana and approved its ownership structure. Although PANG, ZHANG, and two unindicted co-conspirators each contributed seed money to Novana, PRC entities paid for the equipment purchases and fabrication facility in Tianjin.
- 27. To achieve their goal of creating a fabrication facility in the PRC, WEI PANG, and HAO ZHANG needed to justify their hiring as full professors at TJU by having patent applications in their names in both the United States and the PRC. Those two defendants applied for patents in both

of the technology that formed the basis of their patent applications and to prevent Avago from discovering the theft, WEI PANG and HAO ZHANG applied for U.S. patents based on the Avago technology under ZHANG's name only, keeping former Avago employee PANG's name out of those patent applications. At approximately the same time, the defendants applied for patents in the PRC for some of the same stolen Avago technology, but did so under both WEI PANG and HAO ZHANG's names. This subterfuge allowed both defendants to use the PRC patent applications to enhance their credentials in applying for full professorships with TJU, while hiding their actions from Avago by using only ZHANG's name in the applications filed in the United States. By filing for the patents, PANG and ZHANG also disguised the fact that they had stolen the technology from their respective employers, which enabled them to present themselves to potential investors and suppliers as the developers and owners of that stolen intellectual property.

countries using technology and trade secrets stolen from Avago and Skyworks. To conceal the sources

- During the same period, acting through its wholly-owned investment arm, MNMT, and in a further effort to disguise and obfuscate the source of the stolen trade secrets and the manner by which TJU would come to possess them, TJU entered into a joint venture with WEI PANG, HAO ZHANG, and others. The entity created by this joint venture, ROFS, served as the vehicle to "launder" the trade secrets for later use by TJU in setting up its fabrication facility.
- 29. In October 2008, while they were still employed by the victim companies, PANG and ZHANG provided and coordinated the information necessary to complete applications for PRC government funding, including applications to Tianjin Science and Technology Development Zone; State Key Laboratory (National Laboratory) & Introduction of Overseas High Level Talent; 985 Project Application; 211 Project Application; and MEMS Engineering Research Center of Ministry of Education. Each of these applications required the defendants to supply detailed information about their plans and personnel. The applications often emphasized the benefit of MEMS technology to the PRC, particularly the military benefits, as well as to make the PRC the leading country in the commercial RF industry.

| 1 | Overt Acts | | | | | |
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| 2 | 30. On or about the following dates, in furtherance of the conspiracy and to effect its objects, | | | | | |
| 3 | the defendants committed the following overt acts, among others, in the Northern District of California | | | | | |
| 4 | and elsewhere: | | | | | |
| 5 | a. On October 29, 2006, HUISUI ZHANG emailed WEI PANG and HAO ZHANG | | | | | |
| 6 | his notes from a planning meeting for creating an FBAR fabrication facility in the PRC. One subsection | | | | | |
| 7 | of the notes was entitled: "Cost saving by moving Avago to China." | | | | | |
| 8 | b. On October 30, 2006, WEI PANG emailed a warning to maintain secrecy to HAO | | | | | |
| 9 10 11 | ZHANG and HUISUI ZHANG: Please try not to check personal email accounts in company. It could be tracked as long as in company's network. It is very important. Even in Avago, I have seen several law cases, where the previous employee's emails has been investigated, we are faced with two law cases relating | | | | | |
| 12 | with FBAR right now. | | | | | |
| 13 | c. On November 6, 2006, HUISUI ZHANG emailed WEI PANG and | | | | | |
| 14 | HAO ZHANG regarding their need for intellectual property, stating that "IP is our | | | | | |
| 15 | biggest problem." [Translation from Chinese.] | | | | | |
| 16 | d. On November 9, 2006, WEI PANG emailed HAO ZHANG and HUISUI ZHANG | | | | | |
| 17 | discussing potential conflicts for their PRC company concerning Avago's and Skyworks' IP: | | | | | |
| 18 | IP is almost impossible if we are still engaged with current company, but sample demonstration will be good enough for VC according to a veteran | | | | | |
| 1920 | in a high-tech start up company. The prototype doesn't need to be perfect in the very beginning. But how can we build filter outside of Avago and Skyworks? | | | | | |
| 21 | e. On November 13, 2006, WEI PANG sent an email to a PRC national | | | | | |
| 23 | and former colleague at USC to help set up a business plan to sell FBARs in the PRC: | | | | | |
| 242526 | We (Hao, Huisui, and I) have made decision to form a company and establish a factory in China to produce FBAR filters mainly for cell phone manufacturers (such as Nokia, Motorola, Samsung, LG, etc.) by leveraging our technology and experience accumulated in both of | | | | | |
| 20 | academics and industry through the past five years. The filter market for cell-phone alone is estimated to be more than \$1 Billion in 2006. We are | | | | | |
| 28 | confident with our technology and business model (i.e., cost advantages SUPERSEDING INDICTMENT CR-15-00106 EJD 13 | | | | | |

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officials from TJU would be coming to the United States to meet with them the week of August 30, 2008.

- t. On August 31 and September 1, 2008 the TJU VP and the Dean of the College of Precision Instrument met with WEI PANG, HAO ZHANG, and others at a residence in San Jose, California.
- u. On September 8, 2008, a TJU VP emailed WEI PANG, HAO ZHANG, and others to say that TJU would give PANG's team full support by actively obtaining the funding, equipment, and space required to conduct the work. TJU asked PANG to provide details for the plan including equipment requirements, staffing requirements, development plans, and to note specifically any information that needed to be kept confidential. [Translation from Chinese.]
- v. On September 11, 2008, WEI PANG emailed HAO ZHANG the file "WCDMA_TX_070803.gds" containing Avago trade secrets.
- w. Between October 12 and October 26, 2008, WEI PANG and HAO ZHANG coordinated with TJU officials to apply for PRC government funding, including applications to the Tianjin Science and Technology Development Zone; the State Key Laboratory (National Laboratory) & Introduction of Overseas High Level Talent program; the 985 Project; the 211 Project; and the MEMS Engineering Research Center of Ministry of Education.
- x. Between October 25 and November 22, 2008, HAO ZHANG emailed his co-conspirators the specifications and pricing for the Aviza AIN sputter deposition tool, the Omega AIN etching tool, and the Sigma deposition tool, all containing Skyworks trade secrets, in order to prepare to build an FBAR fabrication facility at TJU.
- y. Between November 2 and November 6, 2008, WEI PANG traveled to the PRC to meet with TJU and MNMT officials, as well as with equipment vendors.
- z. On November 10, 2008, WEI PANG sent an email to an unindicted co-conspirator (H.I.) that included a PowerPoint slide containing Avago's deep silicon via etching technique.
 - aa. On November 10, 2008, an unindicted co-conspirator (H.I.) sent an email to an

equipment vendor used by Avago stating, "I am working for China Tianjin University now to help them set up a MEMS pilot line for student training purposes (This is the 985 project, \$ comes from education funding.)" H.I. then forwarded this email to WEI PANG.

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- bb. On November 11, 2008, WEI PANG sent an email containing the subject line, "equipment details," and an attached spreadsheet of tools and the specifications at which the tools would need to operate. Specifically, the list contained Avago's "AlN etch recipe."
- On December 9, 2008, HAO ZHANG emailed to WEI PANG an unredacted slide cc. from Avago's Confidential Process Flow PowerPoint.
- On December 11, 2008, WEI PANG sent an email to HAO ZHANG containing photos of the Avago device packaging process which allowed two silicon wafers to be sandwiched together, called the "microcap process."
- Between January 31 and February 1, 2009, WEI PANG and HAO ZHANG ee. traveled to San Jose, California, for a team meeting and to meet with equipment vendors.
- On February 12, 2009, HAO ZHANG emailed a TJU official proposing that ff. because he did not previously have access to the Skyworks technology to which he had recently been assigned, he should stay at Skyworks long enough to "master the technology," and then join TJU at the beginning of May 2009. [Translation from Chinese.]
- On February 19, 2009, WEI PANG emailed HAO ZHANG Avago P-cells and gg. Design Kits (v.5 and v.6).
- On February 19, 2009, HAO ZHANG emailed WEI PANG a PowerPoint for hh. Skyworks AlN and Molybdenum ("Mo") deposition that contained over 25 slides with computer screen snapshots of detailed process specifications.
- On March 25, 2009, HAO ZHANG emailed WEI PANG, while PANG was in ii. the PRC, a PowerPoint entitled, "Planarization Rate at FBAR CMP," that included detailed photographs, screenshots, and specifications of Avago's CMP process. ZHANG also emailed PANG a screenshot entitled "BAW process flow snapshot," containing Skyworks' process flow.
 - On April 5, 2009, WEI PANG emailed several of his co-conspirators informing

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On November 3, 2009, WEI PANG forwarded an email to HUISUI ZHANG

about funding from the PRC Ministry of Education and said: "As you can see, we are suggested to work on smart grid project from University. There is money there, do you have any ppt slide?" HUISUI ZHANG responded the same day, saying that he did not have a slide but could come up with something. [Quoted portion in English; referenced email in Chinese.]

- On December 9, 2009, HAO ZHANG emailed CHONG ZHOU and others a VV. layout marked "Skyworks Solutions Inc, 20 Sylvan Road, Woburn, MA 01801 / Proprietary Information No Dissemination Or Use Allowed Without Prior Written Permission," that also contained the names of Skyworks employees and the dates of revisions to the layout made by the named Skyworks employees.
- On December 18, 2009, HAO ZHANG filed a United States patent application based on stolen Avago Wings technology, listing himself as the sole inventor. On the same date, ZHANG's oath form was filed with the U.S. Patent and Trademark Office (PTO), acknowledging the requirement for providing truthful information to the PTO about the inventor and invention status, as well as the penalties for violating 18 U.S.C. § 1001.
- On March 16, 2010, HAO ZHANG filed a United States patent application based XX. on stolen Avago Temperature Compensation ("Tempco") project technology, listing himself as the sole inventor. On the same date, ZHANG's oath form was filed with the U.S PTO, acknowledging the requirement for providing truthful information to the PTO about the inventor and invention status as well as the penalties for violating 18 U.S.C. § 1001.
- On May 11, 2010, HAO ZHANG filed a United States patent application based уу. on stolen Avago Coupled Resonator Filters ("CRF") technology, listing himself as the sole inventor. On the same date, ZHANG's oath form was filed with the U.S. PTO, acknowledging the requirement for providing truthful information to the PTO about the inventor and invention status as well as the penalties for violating 18 U.S.C. § 1001.
- On June 10, 2010, HAO ZHANG filed a United States patent application based ZZ. on stolen Avago Silicon Carbide technology, listing himself as the sole inventor. On the same date, ZHANG's oath form was filed with the U.S. PTO, acknowledging the requirement for providing truthful information to the PTO about the inventor and invention status as well as the penalties for violating 18

| 1 | FE901 Design and Layout Review," marked, "MEMS Group, Tianjin University," and containing |
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| 2 | FBAR layout views, among other slides, to HAO ZHANG. |
| 3 | lll. On December 12, 2010, JINPING CHEN emailed co-conspirators and officials |
| 4 | from TJU a copy of a contract between TJU and MNMT. The contract committed TJU to give 26 |
| 5 | million RMB to MNMT to purchase MEMS fab equipment. TJU was also supposed to provide tax free |
| 6 | forms for all of the purchases and pay any relevant fees. [Translation from Chinese.] |
| 7 | mmm. On December 20, 2010, CHONG ZHOU altered a stolen Avago design kit FBAI |
| 8 | Resonator P-cell generator file, "resonator 13b.il," and emailed it to HAO ZHANG. The source code |
| 9 | text matched that of the "resonator13b.il" file sent on August 15, 2010. |
| 10 | nnn. On January 23, 2011, HAO ZHANG emailed a representative of ZTE (the PRC's |
| 11 | largest listed telecoms equipment company) a PowerPoint entitled, "Bulk Acoustic Wave (BAW) RF |
| 12 | Filters For Wireless Communications," that displayed his work at both Novana and TJU on the cover |
| 13 | slide. In addition to discussing the importance and performance of Novana's BAW products, the |
| 14 | presentation contained specific Avago product information to illustrate Novana's products, and |
| 15 | performance charts that referenced Skyworks product performance. |
| 16 | ooo. On August 16, 2011, GANG ZHAO emailed WEI PANG, HAO ZHANG, and |
| 17 | JINPING CHEN regarding business dealings with UMC (a wafer fabrication company in the PRC). |
| 18 | ZHAO stated, "[t]he material which you sent UMC last time shows very clearly the word AVAGO," ar |
| 19 | concluded "[I] suggest the necessary revisions be made just to avoid any unnecessary problems for u |
| 20 | later." [Translation from Chinese; "Avago" in English.] |
| 21 | ppp. On September 22, 2011, JINPING CHEN emailed officials at TEDA to verify the |
| 22 | agreement between TEDA and the ROFS MEMS project. The agreement clarified that WEI PANG, |
| 23 | HAO ZHANG, JINPING CHEN, ZHAO GANG, and others held positions at ROFS. [Translation from |
| 24 | Chinese.] |
| 25 | qqq. On October 16, 2011, HAO ZHANG emailed CHONG ZHOU and others a |
| 26 | PowerPoint presentation entitled "Single to Balanced Circuits" on a template entitled "Skyworks |
| 27 | Template." |
| 28 | SUPERSEDING INDICTMENT CR-15-00106 EJD 21 |

States patent applications covering Avago trade secrets in the fall of 2011. In late 2011, WEI PANG's former boss at Avago, Dr. Rich Ruby, traveled to the PRC to attend a conference in Shenzen. While he was in the PRC, Dr. Ruby visited TJU to see PANG and ZHANG's new MEMS lab. When he toured the facility, Dr. Ruby recognized that it was using stolen Avago technology. Dr. Ruby confronted JINPING CHEN and WEI PANG about stealing and using Avago trade secrets. PANG falsely denied having an FBAR company or any company.

SSS. On December 9, 2011, Dr. Ruby memorialized the verbal confrontation with WEI PANG and JINPING CHEN in an email. CHEN forwarded Ruby's email to WEI PANG, HAO ZHANG, and ZHAO GANG on the same day.

ttt. On December 14, 2011, JINPING CHEN emailed Dr. Ruby that, "[b]ased on our inspection, we can make sure that Tianjin University is not the assignee of any patent you have mentioned, neither US ones nor Chinese ones. On the same day, CHEN forwarded this response to WEI PANG, HAO ZHANG, and ZHAO GANG.

uuu. On November 11, 2012, WEI PANG emailed CHONG ZHOU and HAO ZHANG warning ZHOU never to include unpublished figures or materials from Avago or any other company in ZHOU's Master's degree thesis. [Translation from Chinese; "Avago" in English.]

vvv. On July 5, 2012, CHONG ZHOU received and email notification about the status of the backup of ROFS's layout server that listed files contained in the directories of individual ROFS design team members that referenced specific Avago employees, internal Avago project names, design kits, and P-cells.

www. On March 3, 2013, CHONG ZHOU emailed a stolen Avago design kit FBAR Resonator P-cell generator file, "resonator13c.il," in an email with a subject line that simply read, "code." This revision was the same as the "resonator13b.il" file sent on August 15 and December 20, 2010, except that it also contained an additional revision attributed to CHONG ZHOU, dated November 29, 2011.

All in violation of Title 18, United States Code, Section 1831(a)(5).

SUPERSEDING INDICTMENT CR-15-00106 EJD

28 SUPERSEDING INDICTMENT CR-15-00106 EJD

20.21.

California and elsewhere, the defendants committed, among others, each of the overt acts alleged in Paragraph 30, including its subparagraphs.

All in violation of Title 18, United States Code, Section 1832(a)(5).

COUNTS THREE THROUGH SEVENTEEN:

(18 U.S.C. §§ 1831(a)(1),(2),(3), & 2 – Economic Espionage; Aiding and Abetting)

- 35. The factual allegations contained in Paragraphs 1 through 30 are realleged and incorporated as if fully set forth here.
- 36. On the dates set forth below, in the Northern District of California and elsewhere, the defendants listed in the separate counts below, together with others known and unknown to the Grand Jury, knowing and intending that the offenses would benefit a foreign government, namely the PRC, and foreign instrumentalities, namely TJU, MNMT, TEDA and ROFS, as specifically alleged in each of the Counts 3 through 17 below:
 - a. knowingly stole, and without authorization appropriated, took, carried away, concealed, and by fraud, artifice, and deception obtained trade secrets belonging to Avago and Skyworks;
 - b. knowingly and without authorization copied, duplicated, sketched, drew, downloaded, uploaded, altered, photocopied, replicated, transmitted, delivered, sent, communicated, and conveyed trade secrets belonging to Avago and Skyworks; and
 - c. knowingly and without authorization received, bought, and possessed trade secrets belonging to Avago and Skyworks, knowing the same to have been stolen and appropriated, obtained, and converted without authorization:

| COUNT | DATE | DEFENDANT(S) | ACTION | TRADE SECRET |
|-------|----------------|--------------|-------------|--------------------|
| 3 · | March 16, 2010 | HAO ZHANG | U.S. patent | Avago Temperature |
| | | | application | Compensation |
| | * | | | ("Tempco") project |
| | | | | technology |
| 4 | May 11, 2010 | HAO ZHANG | U.S. patent | Avago Coupled |
| | | • | application | Resonator Filters |
| | | | | ("CRF") technology |
| 5 | June 10, 2010 | HAO ZHANG | U.S. patent | Avago Silicon |
| | | | application | Carbide technology |

Case 2:16-ansp-601932-16:rE010/110/6-E0100 unDecrotu2n elimine-d1.05/11.6/1105/22/2/16/6: 278-angre-4298 of 14.9/e ID #:29

| . | 6 | June 10, 2010 | WEI PANG and | U.S. patent | Skyworks Composite |
|------|----|-----------------|-------------------------|-------------------|--|
| | | | HAO ZHANG | application | Bulk Acoustic Wave Resonator |
| 2 | | | | | technology |
| -3 | 7 | June 23, 2010 | CHONG ZHOU and | email | Avago |
| 4 | - | | HAO ZHANG | | design kit FBAR Resonator P-cell |
| 5 | | | | | generator, "resonator12b.il" file |
| 6 | 8 | August 15, 2010 | CHONG ZHOU and | email | Avago design kit FBAR Resonator P- |
| 7 · | | | HAO ZHANG | | cell generator, "resonator13b.il" file |
| 8 | 9 | August 20, 2010 | WEI PANG and | PRC patent | Avago Wings |
| 9 | 10 | August 24, 2010 | HAO ZHANG CHONG ZHOU | application email | technology "Band I and Band II |
| | 10 | August 24, 2010 | and | eman | Parameters for |
| 10 | | - | HAO ZHANG | | Layout" files |
| 11 | | | | | containing Avago Design Kits and P- |
| 12 | | | | | cells to HAO |
| | | | | | ZHANG |
| 13 | 11 | August 28, 2010 | CHONG ZHOU | email | Skyworks PowerPoint |
| 14 | | | and HAO ZHANG | | presentation entitled |
| 15 | | | | | "Temperature |
| | | | | | Compensated BAW Resonator with |
| 16 | | | | | Embedded Silicon |
| 17 | | | | | Dioxide Layer |
| 18 | | | | | underneath Piezoelectric Layer," |
| 19 | | , | | | marked "Skyworks |
| - 11 | | | | | Solutions |
| 20 | · | | | | Confidential and Proprietary." |
| 21 | | | | | Troprictary. |
| 22 | 12 | August 31, 2010 | WEI PANG and | PRC patent | Avago Air Bridge |
| 23 | | i anguara a, | HAO ZHANG | application | technology |
| 24 | 13 | September 27, | WEI PANG and | PRC patent | Avago Temperature |
| 25 | | 2010 | HAO ZHANG | application | Compensation ("Townso") project |
| . | | | | | ("Tempco") project technology |
| 26 | | | | | |
| 27 | | | | | |

28 SUPERSEDING INDICTMENT CR-15-00106 EJD

| - 11 | | • | | | | |
|------|----|---|----------------------|----------------|-------|--|
| 1 | 14 | | December 7, 2010 | CHONG ZHOU and | email | Avago FBAR layou views, Mask FE901 |
| 2 | | | · | HAO ZHANG | | Design and Layout Review |
| 3 | 15 | | December 20, 2010 | CHONG ZHOU and | email | Avago design kit FBAR Resonator P-cell |
| 4 | | | | HAO ZHANG | | generator, |
| 5 | | · | | | | "resonator 13b.il" f |
| 6 | | • | · | | | |
| 7 | 16 | | October 16, 2011 | CHONG ZHOU and | email | Skyworks PowerPoint |
| 8 | | · | · | HAO ZHANG | | presentation entitle "Single to Balance |
| 9 | | | | | | Circuits" and prepared on a |
| 10 | | | | | | PowerPoint templa |
| 11 | | | 41 | | | titled "Skyworks Template." |
| 12 | 17 | | March 3, 2013 | CHONG ZHOU | email | Avago design kit FBAR Resonator I |
| 13 | | | | | · | cell generator, "resonator13c.il" 1 |
| 14 | | | | 4 | | in an email with th |
| 15 | | | | | | subject line entitle "code" |
| 16 | | | | | | |

All in violation of Title 18, United States Code, Sections 1831(a)(1), (2), (3), & 2.

(18 U.S.C. §§ 1832(a)(1),(2),(3), & 2 – Theft of Trade Secrets; Aiding and Abetting) COUNTS EIGHTEEN through THIRTY-TWO:

The factual allegations contained in Paragraphs 1 through 30 are realleged and 37. incorporated as if fully set forth here.

On the dates set forth below, in the Northern District of California and elsewhere, the 38. defendants listed in the separate counts below, together with others known and unknown to the Grand Jury, intending to convert a trade secret, that was related to a product and service used in and intender for use in interstate and foreign commerce, to the economic benefit of anyone other than the owner of that trade secret, and knowing and intending that the offense would injure the owner of that trade sec as specifically alleged in each of the Counts 18 through 32 below:

SUPERSEDING INDICTMENT CR-15-00106 EJD

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- a. knowingly stole, and without authorization appropriated, took, carried away, concealed, and by fraud, artifice, and deception obtained trade secrets belonging to Avago and Skyworks;
- b. knowingly and without authorization copied, duplicated, sketched, drew, downloaded, uploaded, altered, photocopied, replicated, transmitted, delivered, sent, communicated, and conveyed trade secrets belonging to Avago and Skyworks; and
- c. knowingly and without authorization received, bought, and possessed trade secrets belonging to Avago and Skyworks, knowing the same to have been stolen and appropriated, obtained, and converted without authorization:

| | T | T | | |
|-------|-----------------|--------------------------------|-------------------------|--|
| COUNT | DATE | DEFENDANT(S) | ACTION | TRADE SECRET |
| 18 | March 16, 2010 | HAO ZHANG | U.S. patent application | Avago Temperature Compensation ("Tempco") project technology |
| 19 | May 11, 2010 | HAO ZHANG | U.S. patent application | Avago Coupled Resonator Filters ("CRF") technology |
| 20 | June 10, 2010 | HAO ZHANG | U.S. patent application | Avago Silicon Carbide technology |
| 21 | June 10, 2010 | WEI PANG and HAO ZHANG | U.S. patent application | Skyworks Composite Bulk Acoustic Wave Resonator technology |
| 22 | June 23, 2010 | CHONG ZHOU and HAO ZHANG | email | Avago design kit FBAR Resonator P-cell generator, "resonator12b.il" file |
| 23 | August 15, 2010 | CHONG ZHOU and HAO ZHANG | email | Avago design kit FBAR Resonator P- cell generator, "resonator13b.il" file |
| 24 | August 20, 2010 | WEI PANG and HAO ZHANG | PRC patent application | Avago Wings technology |

Case 2:16-ansp-601952-16: FEDIO IN 6-EDID un Decrotu2n e Fride di 0.05/11/6/105/22/40/56 391 ang fe491 de 10 #:32

| | 25 | | August 24, 2010 | CHONG ZHOU | email | "Band I and Band II |
|----------|----|---|------------------|------------------|-------------|-------------------------------------|
| 1 | 25 | | August 24, 2010 | and | Cinan | Parameters for |
| 2 | - | | | HAO ZHANG | | Layout" files |
| . 2 | | | : | , | | containing Avago |
| 3 | | | | | | Design Kits and P- |
| | | | | | | cells to HAO |
| 4 | | | | | | ZHANG |
| 5 | 26 | | August 28, 2010 | CHONG ZHOU | email | Skyworks |
| | | | | and | | PowerPoint |
| 6 | | | | HAO ZHANG | | presentation entitled "Temperature |
| 7 | | | | | | Compensated BAW |
| _ ′ | | ÷ | | | | Resonator with |
| 8 | | • | | · | | Embedded Silicon |
| | | | | | | Dioxide Layer |
| 9 | | | | | | Underneath |
| 10 | | | | | · | Piezoelectric Layer," |
| | ļ | | | • | | marked "Skyworks |
| 11 | | | | | | Solutions |
| 12 | | | | | | Confidential and |
| | 27 | | August 31, 2010 | WEI PANG and | PRC patent | Proprietary." Avago Air Bridge |
| 13 | 27 | | August 31, 2010 | HAO ZHANG | application | technology |
| 14 | 28 | | September 27, | WEI PANG and | PRC patent | Avago Temperature |
| 14 | 20 | | 2010 | HAO ZHANG | application | Compensation |
| 15 | | | | | | ("Tempco") project |
| | | | · | | | technology |
| 16 | | | 7 0010 | CITONIC GITOIL | | A |
| 17 | 29 | | December 7, 2010 | CHONG ZHOU and | email | Avago FBAR layout views, Mask FE901 |
| | | | | HAO ZHANG | | Design and Layout |
| 18 | | ÷ | | III C ZIII IV | | Review |
| 19 | 30 | | December 20, | CHONG ZHOU | email | Avago |
| } | | | -2010 | and | | design kit FBAR |
| 20 | | | | HAO ZHANG | | Resonator P-cell |
| 21 | | | | | | generator, |
| | | | 0 . 1 . 1 . 2011 | OTTONIO 777077 | | "resonator13b.il" file |
| 22 | 31 | | October 16, 2011 | CHONG ZHOU | email | Skyworks PowerPoint |
| 23 | | | | and HAO ZHANG | | presentation entitled |
| 23 | | | | IIAO ZIIANO | | "Single to Balanced |
| 24 | | | | | | Circuits" and |
| <u> </u> | | | | | | prepared on a |
| 25 | | | | | | PowerPoint template |
| 26 | | | | | | entitled "Skyworks |
| | | | | | | Template." |
| 27 | | • | | ÷ | | |

28 SUPERSEDING INDICTMENT CR-15-00106 EJD

Avago design kit 32 March 3, 2013 email **CHONG ZHOU** 1 FBAR Resonator Pcell generator, 2 "resonator13c.il" file. 3 4 All in violation of Title 18 United States Code, Sections 1832(a)(1), (2), (3), and 2. 5 E ALLEGATION: (18 U.S.C. §§ 1834 and 2323 - Proceeds and Property Involved in Economic Espionage and Theft of Trade Secrets) 6 7 The allegations contained in Counts 1 through 32 of this Indictment are hereby realleged 39. 8 and incorporated as if fully set forth here. Upon conviction of any of those offenses, the defendants, 9 WEI PANG, 10 HAO ZHANG, HUISUI ZHANG, 11 JINPING CHEN, ZHAO GANG, and 12 CHONG ZHOU, 13 shall forfeit to the United States of America, pursuant to Title 18, United States Code, Sections 1834 and 14 2323, any property used, or intended to be used, in any manner or part to commit or facilitate the 15 commission of the offenses, and any property constituting or derived from any proceeds obtained 16 directly or indirectly as a result of the commission of the offenses. 17 18 19 20 21 22 23 24 25 26 27 28 SUPERSEDING INDICTMENT 29

2:16-ansip-0093-1c+000 T0/6-Data urberotu2ne Frille d1.05/11/8/105/272/abje 372 apje-932 dP 4/9e ID #:33

Case

CR-15-00106 EJD

2:16-ansig-001932-1c+e010 To/6-Data urbænotuan elinile-dl. 0 57/11/e/1005/272/abje 373-angfe-933 ctP 4/9e ID #:34 If any of the property described above, as a result of any act or omission of the 40. 1 defendants: 2 cannot be located upon the exercise of due diligence; 3 a. has been transferred or sold to, or deposited with, a third party; b. 4 has been placed beyond the jurisdiction of the court; 5 c. has been substantially diminished in value; or d. 6 has been commingled with other property which cannot be divided without 7 e. difficulty, 8 the United States of America shall be entitled to forfeiture of substitute property pursuant to Title 21, 9 United States Code, Section 853(p), as incorporated by Title 18, United States Code, Section 2323(b). 10 All pursuant to Title 18, United States Code, Sections 1834 and 2323. 11 12 13 . A TRUE 4/1/15 DATED: 14 15 16 MELINDA HAAG 17 18 19 Chief, Computer Hacking/Intellectual Property Unit 20

(Approved as to form:

AUSAs Parrella/Callaway

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CR-15-00106 EJD

^^ 25C85672.16-ansje-801952-1c+12010 T0/6-12-bittouribearaturenelinite-dl.05711.8/d105/272/abje 344-argie-384 of 449e ID #:35

| DEFENDANT INFORMATION RELATIVE T | O A CRIMINAL ACTION - IN U.S. DISTRICT COURT |
|---|--|
| BY: COMPLAINT INFORMATION INDICTMENT | |
| OFFENSE CHARGED SUPERSEDIN | |
| STILLION STANLOOD | SAN JOSE DIVISION |
| | |
| Mino | DEFENDANT - U.S |
| Misdi mear | 1 1 A |
| Felor | DISTRICT COURT NUMBER |
| FENALIT | CR-15-00106 EJD HRL |
| · | |
| | DEFENDANT |
| PROCEEDING | IS NOTIN CUSTODY |
| Name of Complaintant Agency, or Person (& Title, if any) | Has not been arrested, pending outcome this proceeding. 1) If not detained give date any prior |
| Richard Smith-FBI | summons was served on above charges |
| person is awaiting trial in another Federal or State Court, | 2) Sa Fugitive |
| give name of court | THE PART OF THE PA |
| | 3) Is on Bail or Release from (show District) |
| this person/proceeding is transferred from another district | Short are seen as a seen a |
| per (circle one) FRCrp 20, 21, or 40. Show District | Northern Destroit of Charles Court |
| | 4) On this charge |
| this is a reprosecution of charges previously dismissed which were dismissed on motion of: U.S. ATTORNEY DEFENSE | 5) On another conviction |
| this prosecution relates to a pending case involving this same defendant MAGISTRATE CASE NO. | Has detainer Yes If "Yes" give date filed |
| prior proceedings or appearance(s) before U.S. Magistrate regarding this | DATE OF Month/Day/Year ARREST |
| defendant were recorded under | Or if Arresting Agency & Warrant were not |
| Name and Office of Person Furnishing Information on this form | DATE TRANSFERRED Month/Day/Year TO U.S. CUSTODY |
| ▼ U.S. Attorney ☐ Other U.S. Agency | |
| Name of Assistant U.S. | This report amends AO 257 previously submitted |
| Attorney (if assigned) Matthew A. Parrella | |
| PROCESS: ADDITIONAL INFO | ORMATION OR COMMENTS |
| ☐ SUMMONS ☐ NO PROCESS* ☑ WARRANT | Bail Amount: None |
| If Summons, complete following: Arraignment Initial Appearance | * Where defendant previously apprehended on complaint, no new summons or |
| Defendant Address: | warrant needed, since Magistrate has scheduled arraignment |
| Dolondant / Iddi ood. | Date/Time: |
| | Date/Time: Before Judge: |
| Comments: | |

Counts 3 through $16 - (18 \text{ U.S.C. } \S \$ 1831(a)(1), (2), (3) \& 2 - \text{Economic Espionage};$ Aiding and Abetting)

Penalties:

15 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Counts 18 through 31 - (18 U.S.C. § 1832(a)(1),(2), (3), & 2 - Theft of Trade Secrets;

Aiding and Abetting)

Penalties:

10 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

HUISUI ZHANG:

Count 1 – (18 U.S.C. § 1831(a)(5) – Conspiracy to Commit Economic Espionage)

Penalties:

15 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Count 2 - (18 U.S.C. § 1832(a)(5) - Conspiracy to Commit Theft of Trade Secrets)

Penalties:

10 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

JINPING CHEN:

Count 1 – (18 U.S.C. § 1831(a)(5) – Conspiracy to Commit Economic Espionage)

Penalties:

15 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Count 2 – (18 U.S.C. § 1832(a)(5) – Conspiracy to Commit Theft of Trade Secrets)

Penalties:

10 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

ZHAO GANG:

Count 1 – (18 U.S.C. § 1831(a)(5) – Conspiracy to Commit Economic Espionage)

Penalties:

15 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Count 2 - (18 U.S.C. § 1832(a)(5) - Conspiracy to Commit Theft of Trade Secrets)

Penalties:

10 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

CHONG ZHOU:

Count 1 – (18 U.S.C. § 1831(a)(5) – Conspiracy to Commit Economic Espionage)

Penalties:

15 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Count 2 - (18 U.S.C. § 1832(a)(5) - Conspiracy to Commit Theft of Trade Secrets)

Penalties:

10 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Counts 6, 7, 9, 10, 14, 15, 16, & 17 – (18 U.S.C. §§ 1831(a)(1),(2), (3) & 2 – Economic Espionage; Aiding and Abetting)

Penalties:

15 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Counts 21, 22, 24, 25, 29, 30, 31, & 32 - (18 U.S.C. \$ \$ 1832(a)(1),(2), (3), & 2 - Theft of Trade Secrets; Aiding and Abetting)

Penalties:

10 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

AO 257 (RSY e^{6/78}): 16-ans je 601952-16 f E010 TO/6 - Extro ur Depot Len Peinte de 10 3 f Len Len Engle 37 au fe 49 e ID #:38 DEFENDANT INFORMATION RELATIVE TO A CRIMINALIACTION - IN U.S. DISTRICT COURT BY: COMPLAINT LINFORMATION **☒** INDICTMENT Name of District Court, and/or Judge/Magistrate Location **⊠** SUPERSEDING NORTHERN DISTRICT OF CALIFORNIA OFFENSE CHARGED -SAN JOSE DIVISION SEE ATTACHED SHEET Petty Minor DEFENDANT - U.S -Misdemeanor A HAO ZHANG Felony DISTRICT COURT NUMBER PENALTY: CR-15-00106 EJD HRL DEFENDANT **PROCEEDING** IS NOT IN CUSTODY Has not been arrested, pending outcome this proceeding. Name of Complaintant Agency, or Person (& Title, if any) 1) If not detained give date any prior summons was served on above charges Richard Smith-FBI person is awaiting trial in another Federal or State Court, 2) T Is a Fugitive give name of court 3) Is on Bail or Release from spoken string. this person/proceeding is transferred from another district per (circle one) FRCrp 20, 21, or 40. Show District IS IN CUSTODY Richard W. Wieking Clerk, U.S. District Court Northern District of California 4) On this charge this is a reprosecution of charges previously dismissed 5) On another conviction SHOW which were dismissed on motion Federal State DOCKET NO. 6) Awaiting trial on other charges U.S. ATTORNEY DEFENSE If answer to (6) is "Yes", show name of institution this prosecution relates to a If "Yes" Has detainer \(\subseteq \text{Yes} \) pending case involving this same give date been filed? defendant **MAGISTRATE** filed CASE NO. Month/Day/Year DATE OF prior proceedings or appearance(s) ARREST before U.S. Magistrate regarding this defendant were recorded under Or... if Arresting Agency & Warrant were not Month/Day/Year DATE TRANSFERRED Name and Office of Person TO U.S. CUSTODY Furnishing Information on this form ☑ U.S. Attorney ☐ Other U.S. Agency This report amends AO 257 previously submitted Name of Assistant U.S. Matthew A. Parrella Attorney (if assigned) ADDITIONAL INFORMATION OR COMMENTS

ADDITIONAL INFORMATION OR COMMENTS

PROCESS:

SUMMONS NO PROCESS* WARRANT Bail Amount: None

If Summons, complete following:
Arraignment Initial Appearance Note and the summons of warrant needed, since Magistrate has scheduled arraignment

Defendant Address:

Date/Time: Before Judge:

Count 1 – (18 U.S.C. § 1831(a)(5) – Conspiracy to Commit Economic Espionage)

Penalties: 15 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Count 2 - (18 U.S.C. §§ 1832(a)(5) - Conspiracy to Commit Theft of Trade Secrets)

Penalties: 10

10 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Counts 8, 11, 12, & 13 – (18 U.S.C. §§ 1831(a)(1), (2), (3), & 2 – Economic Espionage; Aiding and Abetting)

Penalties:

15 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Counts 23, 26, 27, & 28, -(18 U.S.C. §§ 1832(a)(1), (2), (3), & 2 - Theft of Trade Secrets; Aiding and Abetting)

Penalties:

10 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

HAO ZHANG:

Count 1 – (18 U.S.C. § 1831(a)(5) – Conspiracy to Commit Economic Espionage)

Penalties:

15 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Count 2 – (18 U.S.C. § 1832(a)(5) – Conspiracy to Commit Theft of Trade Secrets)

Penalties:

10 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

Counts 3 through 16 - (18 U.S.C. §§ 1831(a)(1), (2), (3) & 2 - Economic Espionage; Aiding and Abetting)

Penalties:

15 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Counts 18 through 31 – (18 U.S.C. § 1832(a)(1),(2), (3), & 2 – Theft of Trade Secrets;

Aiding and Abetting)

Penalties:

10 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

HUISUI ZHANG:

Count 1 – (18 U.S.C. § 1831(a)(5) – Conspiracy to Commit Economic Espionage)

Penalties:

15 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Count 2 - (18 U.S.C. § 1832(a)(5) - Conspiracy to Commit Theft of Trade Secrets)

Penalties:

10 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

JINPING CHEN:

Count 1 – (18 U.S.C. § 1831(a)(5) – Conspiracy to Commit Economic Espionage)

Penalties:

15 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Count 2 - (18 U.S.C. § 1832(a)(5) - Conspiracy to Commit Theft of Trade Secrets)

Penalties:

10 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

| BY: COMPLAINT INFORMATION | ⊠ INDICTMEN | Name of District Court, and/or Judge/Magistrate Location |
|---|---------------------|--|
| OFFENSE CHARGED | ⊠ SUPERSEDI | NORTHERN DISTRICT OF CALIFORNIA |
| SEE ATTACHED SHEET | Pett | SAN JOSE DIVISION |
| | Min | |
| | Mise | |
| | ∟ mea | nor HUISUI ZHANG |
| PENALTY: | ∑ Felo | DISTRICT COURT NUMBER |
| ENAL(II. | | CR-15-00106 EJD HRL |
| | | |
| | | DEFENDANT |
| PROCEEDING _ | | IS NOT IN CUSTODY |
| Name of Complaintant Agency, or Person (& Title, if any) | | Has not been arrested, pending outcome this proceeding 1) If not detained give date any prior |
| Richard Smith-FBI | | summons was served on above charges |
| person is awaiting trial in another Federal or State Court, | | 2) 🔲 Is a Fugitive |
| | | 3) Son Bail or Release from (show District) |
| | | APR OF THE BOTH |
| this person/proceeding is transferred from another district per (circle one) FRCrp 20, 21, or 40. Show District | | Markette Vary 2015 |
| | | IS IN CUSTODY |
| | | 4) On this charge |
| this is a reprosecution of charges previously dismissed | | 5) On another conviction |
| which were dismissed on motion of: | SHOW , DOCKET NO | ▶ ☐ Federal ☐ State |
| U.S. ATTORNEY DEFENSE | | 6) Awaiting trial on other charges |
| | J | If answer to (6) is "Yes", show name of institution |
| this prosecution relates to a | | Has detainer Yes 1 If "Yes" |
| pending case involving this same defendant | MAGISTRAT | been filed? |
| | CASE NO. | DATE OF Month/Day/Year |
| prior proceedings or appearance(s) before U.S. Magistrate regarding this | | ARREST |
| defendant were recorded under | d <u></u> | Or if Arresting Agency & Warrant were not |
| ame and Office of Person Irnishing Information on this form | | DATE TRANSFERRED Month/Day/Year TO U.S. CUSTODY |
| · U.S. Attorney | Other U.S. Agency | |
| ame of Assistant U.S. torney (if assigned) Matthew | A. Parrella | This report amends AO 257 previously submitted |
| | ADDITIONAL INF | ORMATION OR COMMENTS |
| PROCESS: | | |
| SUMMONS NO PROCESS* | WARRANT | Bail Amount: None |
| If Summons, complete following: Arraignment Initial Appearance | | * Where defendant previously apprehended on complaint, no new summons or |
| Defendant Address: | | warrant needed, since Magistrate has scheduled arraignment |
| | | Date/Time: Before Judge: |
| | | |

Count 1 – (18 U.S.C. § 1831(a)(5) – Conspiracy to Commit Economic Espionage)

Penalties:

15 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Count 2 – (18 U.S.C. §§ 1832(a)(5) – Conspiracy to Commit Theft of Trade Secrets)

Penalties:

10 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Counts 8, 11, 12, & 13 – (18 U.S.C. §§ 1831(a)(1), (2), (3), & 2 – Economic Espionage; Aiding and Abetting)

Penalties:

15 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Counts 23, 26, 27, & 28, $-(18 \text{ U.S.C. } \S \$ 1832(a)(1), (2), (3), \& 2 - \text{Theft of Trade Secrets; Aiding and Abetting)}$

Penalties:

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HAO ZHANG:

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Three years' supervised release;

Case 2:16-ansje-601932-1c r EDUO TO/6- EDUD ur Decrotu ûn e Frite d 1.057/11/e/d 1055/272/at 15/e 472 au fe 449/e ID #:43

Counts 3 through 16 - (18 U.S.C. §§ 1831(a)(1), (2), (3) & 2 - Economic Espionage; Aiding and Abetting)

Penalties:

15 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Counts 18 through 31 – (18 U.S.C. § 1832(a)(1),(2), (3), & 2 – Theft of Trade Secrets; Aiding and Abetting)

Penalties:

10 years in prison;

\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

HUISUI ZHANG:

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\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

JINPING CHEN:

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Penalties:

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Three years' supervised release;

AO 200 (180 GB) 16-ans je 601952 it f 1910 T 10/6 - Build ur Deprotuen e Finical of the 160 to 160 Japan 160 AB CP 449 e ID #:44

| DEFENDANT INFORMATION RELATIVE TO | A CRIMINAL ACTION - IN U.S. DISTRICT COURT |
|---|--|
| BY: COMPLAINT INFORMATION INDICTMENT | Name of District Court, and/or Judge/Magistrate Location |
| OFFENSE CHARGED SUPERSEDING | · · · |
| SEE ATTACHED SHEET Petty | SAN JOSE DIVISION |
| Minor | DEFENDANT HE |
| Misde | DEFENDANT - U.S |
| mean | |
| ∑ Felony | / DISTRICT COURT NUMBER |
| PENALTY: | CR-15-00106 EJD HRL |
| · | |
| | DEFENDANT |
| PROCEEDING | IS NOTIN CUSTODY |
| Name of Complaintant Agency, or Person (& Title, if any) | Has not been arrested, pending outcome this proceeding. 1) If not detained give date any prior |
| Richard Smith-FBI | summons was served on above charges |
| person is awaiting trial in another Federal or State Court, | 2) T Is a Fugitive |
| give name of court | 2/ |
| | 3) Is on Bail or Release from (show District) |
| this person/proceeding is transferred from another district | THE THE PARTY OF T |
| per (circle one) FRCrp 20, 21; or 40. Show District | IC IN CUSTODY APP O |
| | IS IN CUSTODY APR D 1 2015 |
| this is a reprosecution of | 4) On this charge of Filehero W. West of South of County of South of County |
| charges previously dismissed | 5) On another conviction and Joseph County State |
| which were dismissed on motion of: | |
| U.S. ATTORNEY DEFENSE | 6) Awaiting trial on other charges If answer to (6) is "Yes", show name of institution |
| <u></u> | and to (o) is ited, show harne of matterior |
| this prosecution relates to a pending case involving this same | Has detainer Yes If "Yes" |
| defendant MAGISTRATE | been filed? No filed |
| CASE NO. prior proceedings or appearance(s) | DATE OF Month/Day/Year |
| before U.S. Magistrate regarding this defendant were recorded under | ARREST 7 |
| | Or if Arresting Agency & Warrant were not |
| Name and Office of Person Furnishing Information on this form | DATE TRANSFERRED Month/Day/Year TO U.S. CUSTODY |
| ☑ U.S. Attorney ☐ Other U.S. Agency | |
| Name of Assistant U.S. | This report amends AO 257 previously submitted |
| Attorney (if assigned) Matthew A. Parrella | |
| PROCESS: ADDITIONAL INFO | DRMATION OR COMMENTS |
| SUMMONS NO PROCESS* WARRANT | Bail Amount: None |
| If Summons, complete following: | * Where defendant previously apprehended on complaint, no new summons or |
| | warrant needed, since Magistrate has scheduled arraignment |
| Defendant Address: | D. de Climan |
| | Date/Time: Before Judge: |
| Comments: | |

Counts 3 through $16 - (18 \text{ U.S.C. } \S 1831(a)(1), (2), (3) \& 2 - \text{Economic Espionage};$ Aiding and Abetting)

Penalties:

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\$250,000 fine or twice the gross gain/loss

Three years' supervised release;

\$100 special assessment.

Counts 18 through 31 – (18 U.S.C. § 1832(a)(1),(2), (3), & 2 – Theft of Trade Secrets; Aiding and Abetting)

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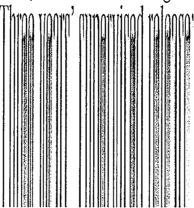
Three years' supervised release;

AO 201889e62816-ansje601932-16: FEDIO TO/6-E-Dato ur Denotuan (**2abje 415ag/fe4155 of Palg**e ID #:46 DEFENDANT INFORMATION RELATIVE TO ACTION - IN U.S. DISTRICT COURT BY: COMPLAINT INFORMATION INDICTMENT Name of District Court, and/or Judge/Magistrate Location SUPERSEDING NORTHERN DISTRICT OF CALIFORNIA OFFENSE CHARGED -SAN JOSE DIVISION SEE ATTACHED SHEET Petty Minor DEFENDANT - U.S -Misdemeanor ZHAO GANG Felony DISTRICT COURT NUMBER PENALTY: CR-15-00106 EJD HRL DEFENDANT IS NOT IN CUSTODY **PROCEEDING** Has not been arrested, pending outcome this proceeding. Name of Complaintant Agency, or Person (& Title, if any) 1) If not detained give date any prior summons was served on above charges Richard Smith-FBI person is awaiting trial in another Federal or State Court, 2) Ts a Fugitive give name of court 3) Is on Bail or Release from (sh this person/proceeding is transferred from another district per (circle one) FRCrp 20, 21, or 40. Show District IS IN CUSTODY 4) On this charge this is a reprosecution of charges previously dismissed . 5) On another conviction SHOW which were dismissed on motion Æederal [DOCKET NO. 6) Awaiting trial on other charges DEFENSE U.S. ATTORNEY If answer to (6) is "Yes", show name of institution this prosecution relates to a If "Yes" Has detainer Yes pending case involving this same give date been filed? defendant **MAGISTRATE** filed CASE NO. Month/Day/Year DATE OF prior proceedings or appearance(s) ARREST before U.S. Magistrate regarding this defendant were recorded under Or... if Arresting Agency & Warrant were not DATE TRANSFERRED Month/Day/Year Name and Office of Person TO U.S. CUSTODY Furnishing Information on this form ☑ U.S. Attorney ☐ Other U.S. Agency Name of Assistant U.S. This report amends AO 257 previously submitted Matthew A. Parrella Attorney (if assigned)

| PROCESS: | IFORMATION OR COMMENTS ———————————————————————————————————— |
|---|---|
| ☐ SUMMONS ☐ NO PROCESS* ☒ WARRANT | Bail Amount: None . |
| If Summons, complete following: Arraignment Initial Appearance Defendant Address: | * Where defendant previously apprehended on complaint, no new summons or warrant needed, since Magistrate has scheduled arraignment |
| | Date/Time: Before Judge: |
| Comments: | |

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AO 257 (Red Spa) 2:16-ans je 601952-ût f 2010 T 0/6 - ED albo ur Deerotuan e Frit 16 **oofe4199 oFPa4.9**1e ID#:50 - IN U.S. DISTRICT COURT DEFENDANT INFORMATION RELATIVE TO A CRIMI BY: ☐ COMPLAINT ☐ INFORMATION ☒ INDICTMENT Name of District Court, and/or Judge/Magistrate Location NORTHERN DISTRICT OF CALIFORNIA SUPERSEDING OFFENSE CHARGED -SAN JOSE # SEE ATTACHED SHEET Petty Minor **DEFENDANT - U.S** Misdeb CHONG ZHOU meanoi Felony DISTRICT COURT NUME PENALTY: CR-15-00106 EJD HR IS NOT IN CUSTODY **PROCEEDING** Has not been arrested, pending outcome this proceeding. Name of Complaintant Agency, or Person (& Title, if any) 1) If not detained give date any prior summons was served on above charges Richard Smith-FBI person is awaiting trial in another Federal or State Court, 2) Is a Fugitive give name of court 3) Is on Bail or Release from (show District) this person/proceeding is transferred from another district per (circle one) FRCrp 20, 21, or 40. Show District IS IN CUSTODY 4) On this charge this is a reprosecution of 5) On another conviction charges previously dismissed SHOW Federal State which were dismissed on motion DOCKET NO. 6) Awaiting trial on other charges U.S. ATTORNEY DEFENSE If answer to (6) is "Yes", show name of institution this prosecution relates to a If "Yes" Has detainer L pending case involving this same give date been filed? **MAGISTRATE** defendant filed CASE NO. Month/Day/Year DATE OF prior proceedings or appearance(s) ARREST before U.S. Magistrate regarding this Or... if Arresting Agency & Warrant were not defendant were recorded under Month/Day/Year DATE TRANSFERRED Name and Office of Person TO U.S. CUSTODY Furnishing Information on this form □ Other U.S. Agency This report amends AO 257 previously submitted Name of Assistant U.S. Matthew A. Parrella Attorney (if assigned) ADDITIONAL INFORMATION OR COMMENTS PROCESS: ☐ SUMMONS ☐ NO PROCESS* ☑ WARRANT Bail Amount: None If Summons, complete following: * Where defendant previously apprehended on complaint, no new summons or Arraignment Initial Appearance warrant needed, since Magistrate has scheduled arraignment Defendant Address: Date/Time:

Comments: